

# Patent [19]

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## [54] PHOTOCATALYST DEVICE

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## [57] ABSTRACT

**PROBLEM TO BE SOLVED:** To provide a photocatalyst device by which an exciting wavelength is surely received by a photocatalyst semiconductor metal and more contact opportunities of the photocatalyst semiconductor metal and a processing object material are formed.

**SOLUTION:** Inside a jacket member 2, a cylindrical photocatalyst filter 3 composed by depositing a photocatalyst function layer to a base body having many holes is arranged. Inside the photocatalyst filter 3, an ultraviolet ray irradiation means 4 is coaxially arranged. The positions of the entrance and exit of fluid to be processed are set so as to make the entire amount of the fluid to be processed flow through the photocatalyst filter 3 in a radial direction.

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